

Date: Sat, 30 Jan 93 12:59:25 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #139  
To: Info-Hams

Info-Hams Digest                      Sat, 30 Jan 93                      Volume 93 : Issue 139

Today's Topics:

                                    1993 SAREX Missions  
=====NEED HELP building colinear 2m antenna  
                                    Club callsigns  
                                    Gauss meters  
                    Ham Radio Causes Cancer! (2 msgs)  
                    Heavy fist on 20 meters.  
                    HT Battery Life  
                    List of university radio clubs  
                    QRP amplifier ?  
                    QSL Info  
                    quarter vs. half-wave vertical  
                    Two meter antenna performance  
                    VHF Digital Communications  
                    Wanted Manual: Yaesu FT-180A

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 29 Jan 93 15:52:31 EST  
From: sun-barr!cs.utexas.edu!swrinde!gatech!hubcap!ncrcae!ncrhub2!ncrgw2!psinntp!  
arrl.org@ames.arpa  
Subject: 1993 SAREX Missions  
To: info-hams@ucsd.edu

Three Shuttle Missions Scheduled To Carry SAREX

Three Shuttle missions will carry SAREX, the Shuttle Amateur Radio Experiment,

early in 1993 enabling school children from all over the world to talk to Shuttle crew members. STS-55 will launch on February 25 at 15:20 UTC, STS-56 on March 23 and STS-57 on April 28. The deadline for SAREX School Applications was January 15. Schools that are not chosen for scheduled contacts are invited to eavesdrop on the space communications from their classrooms.

STS-55 will include a SAREX antenna test that students and all hams located in the southeastern US during can take part in. In an unprecedented action, NASA will position the Shuttle during orbits 61 and 62 to allow amateurs to compare its two antennas. For antenna test forms contact ARRL EAD Desk Z.

For information on the antenna test and new SAREX frequencies, refer to page 42 of February QST. Educators may also request lesson plans from ARRL for February's mission.

SAREX is sponsored by NASA, the American Radio Relay League (ARRL) and the Radio Amateur Satellite Corporation (AMSAT). For more details, contact the ARRL Educational Activities Department (see below).

Posted by:

Robert J Inderbitzen, NQ1R	voice: (203) 666-1541 X213
Educational Activities Department	fax: (203) 665-7531
American Radio Relay League	email: rinderbi@arrl.org
225 Main Street	ARRL BBS: (203) 666-0578
Newington, CT 06111 USA	CompuServe: 70007,3373.

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Date: 30 Jan 93 02:27:57 GMT  
From: noao!ncar!gatech!emory!logicse!flop.ENG.RORST.EDU!prism.CS.OST.EDU!  
kayd@arizona.edu  
Subject: =====NEED HELP building colinear 2m antenna  
To: info-hams@ucsd.edu

I've heard that it was possible to make a colinear 2m antenna out of about 20' of coaxial cable. Could someone forward some information to me on how to build such an antenna...

Darrek Kay  
Kayd@Prism.cs.orst.edu  
(503)737-9410  
KB7RVD

-----  
Date: 30 Jan 93 01:03:22 GMT  
From: yale.edu!spool.mu.edu!howland.reston.ans.net!zaphod.mps.ohio-state.edu!ub!  
acsu.buffalo.edu!bowen@yale.arpa

Subject: Club callsigns  
To: info-hams@ucsd.edu

In article <1993Jan29.222948.17783@news.columbia.edu>,  
mac20@cunxf.cc.columbia.edu (Michael A Cecere) writes:  
> In order to find out some of the calls of clubs across the nation you  
> might try scanning the on-line call server  
> (telnet callsign.cs.buffalo.edu 2000)  
> with the filter names arc  
> while obviously hardly conclusive it does seem to give you a lot of addresses  
> to work with.

Soon, I'll be modifying the server so you'll be able to search only specific  
databases if you'd like. So, for example, you can just look for clubs in  
Kansas or something like that. That and a bunch of other improvements are on  
the list of things for me to do Real Soon Now.

Devon

-----  
Date: Fri, 29 Jan 1993 17:33:58 GMT  
From: agate!spool.mu.edu!uwm.edu!ux1.cso.uiuc.edu!rtaylor@ames.arpa  
Subject: Gauss meters  
To: info-hams@ucsd.edu

OK, where can I buy a decent gauss meter to take advantage of the  
public hysteria (read perform a public service)

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Date: Fri, 29 Jan 93 22:54:21 GMT  
From: news.cerf.net!netsys!agate!spool.mu.edu!uwm.edu!cs.utexas.edu!  
gerald@cc.utexas.edu!slcs.slb.com!leo.asc.slb.com!sjsca4!jones@network.UCSD.EDU  
Subject: Ham Radio Causes Cancer!  
To: info-hams@ucsd.edu

Mark Monninger (markm@bigfoot.sps.mot.com) wrote:  
: Speaking of ham radio and cancer, I'm sure many of you have seen the news  
: coverage of the lawsuit accusing cellular phones of causing cancer. I saw  
: a report of it last night on NBC. I must say, I have seldom seen a more  
: inaccurate and misleading report. Showing people using cordless phones  
: (implying they were cellular phones) was bad enough, but claiming that  
: cellular phones emit 'high energy microwaves just like microwave ovens'  
: was too much. I guess it's a bit naive to expect accurate coverage of  
: something as technical as cellular phone technology but one would think  
: they would at least make the attempt.  
:

: 73... Mark AA7TA

I used to work at a TV station, and unluckily had to interface with the "news" people from time to time. IMHO, the problem isn't that you "have seldom seen a more inaccurate and misleading report", just that you have seldom realized it. My experience indicates that the vast majority of people who are reporting on the news for TV are doing so because they are too stupid to be doing anything interesting themselves. If they had half as big an IQ as they have ego, problems like Grand Unification in physics would have been solved long ago.

BTW, I'm just talking about the vast majority above. There is a small minority that are reasonably intelligent, and some that are reasonably competent at making sure they get things right, and some that don't have megaton egos. (These three groups are not quite the same.) But they are few and far between.

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Disclaimer: The opinions expressed above are mine and not those of Schlumberger because they are NOT covered by the patent agreement!

Phone: (602) 345-3638

RF: N7RPQ

Snail: Clark Jones, Schlumberger Technologies, 7855 S. River Pkwy #116, Tempe, AZ 85284-1825

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Date: 30 Jan 93 16:04:42 GMT

From: ogicse!emory!gatech!wa4mei!ke4zv!gary@network.UCSD.EDU

Subject: Ham Radio Causes Cancer!

To: info-hams@ucsd.edu

In article <1993Jan29.185623.2705@netcon.smc.edu> rblack@netcon.smc.edu (Russ Black) writes:

> There was a Prime Time Live last night that showed a whole lot of RF at the  
> EPA's office in Washington. It was so bad that the people working in one  
> large office refused to go back in after they found out. The stupidest thing  
> was a brochure showing kids playing next to a electrical distribution point.  
> What's even worse was an official justifying it.

>

> Near the bottom of the San Gabriel Mountain range in So. California are homes  
> built just under high power lines. Nice homes, but a really stupid place to  
> put them ( So was building homes in the Anaheim Hills in Orange County).

>

> What I'm trying to say, any body near anything that puts out RF can cause  
> cancer. I see guys walking around a swap meet with antenna clipped to their  
> hats. It's like wearing a microwave to your head. Also, stop smoking!

Hold on now Russ. You're buying into Prime Time Live's media science

rather unskeptically. There are weak \*hints\* that there may be some \*slight\* increase in risk caused by ELF fields, but the evidence is far from compelling. Legitimate researchers who are working in this field aren't ready to advise people to avoid ELF exposure yet. Only the professional scaremongers whose credentials lie in lawyer science and media science are willing to say for sure that low level RF exposure is harmful \*at all\*. These are the same people who have been screaming DOOM about everything manmade for the last 30 years. They've been wrong so often you'd think the public would wise up. These are the people who were claiming the Earth was being pushed into a new Ice Age by human actions in the 1960s, and who have completely reversed field and are now claiming a runaway greenhouse warming. These are the same people who claimed that raw materials would be chronically scarce by the 1980s and mass starvation was assured. When the 80s came and went without fulfilling their prophecies, indeed the price of most raw materials \*declined\* in the eighties and more of the human race is well nurished today than at any time in history, they simply change the date and scream louder. Like most "the end is near" prophets throughout the ages, these people are using incomplete bits of research on the edges of science to support their own self-important ideologies, and their own pocketbooks.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: 30 Jan 93 16:24:33 GMT  
From: ogicse!emory!gatech!wa4mei!ke4zv!gary@network.UCSD.EDU  
Subject: Heavy fist on 20 meters.  
To: info-hams@ucsd.edu

In article <103360142@hpfcs0.FC.HP.COM> wayne@hpfcs0.FC.HP.COM (Wayne Covington) writes:

>

>Is there anyone here that thinks a gorilla or a chimp could learn CW? How  
>about it, you animal experts?

You might be able to force a chimp to learn Morris, but a gorilla isn't going to do much of anything he doesn't want to. Either animal should have no trouble with CW since it's a simple motor skill well within their capabilities, getting them to want to do it is an entirely different matter.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: 30 Jan 93 17:27:43 GMT  
From: ogicse!emory!gatech!concert!samba!usenet@network.UCSD.EDU  
Subject: HT Battery Life  
To: info-hams@ucsd.edu

Does anyone know if the Icom HS-51 headset (PTT/Vox) will work with the Alinco DJ-580T? My Icom HM-46 speaker mic works great with the Alinco, and I'd rather have the Icom headset than the Alinco (and the Icom is even cheaper!).

Email or post responses.

-ks  
KD6RCT

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The opinions expressed are not necessarily those of the University of North Carolina at Chapel Hill, the Campus Office for Information Technology, or the Experimental Bulletin Board Service.  
internet: laUNChpad.unc.edu or 152.2.22.80

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Date: 29 Jan 93 17:42:46 GMT  
From: olivea!spool.mu.edu!sol.ctr.columbia.edu!news.unomaha.edu!cwis!pschleck@ames.arpa  
Subject: List of university radio clubs  
To: info-hams@ucsd.edu

weaverb@rintintin.Colorado.EDU (Brian Weaver) writes:

>Sometime last summer, a pretty good list got compiled in rec.radio.amateur  
>.misc containing info on most of the university amateur radio clubs.  
>I wanted to know if anyone has this list and if they could send it  
>to me. Here at the Univ of Colorado we have a fast growing amatuer  
>radio club, and we'd like a list of the other clubs out there that  
>are active. Thanks for your help..

>-- Brian  
>--

>Brian Weaver                                      University of Colorado at Boulder  
>weaverb@boulder.Colorado.EDU                      (internet)  
>KD6CFA@N0ARY.#NOCAL.CA.USA.NA                      (packet radio)

What's probably needed is a definitive maintainer for such a document, who isn't going away a year from now after graduation (or at least makes plans to pass it on to someone else for continuity).

There have emerged several informal "hand-holders" on this newsgroup for the maintenance of information of archival value, usually in the form of periodic postings, FAQ lists, and FTP/mail-server archives. These include myself, the rec.radio.info moderator (Mark Salzyn, VE6MGS, rec-radio-request@ve6mgs.ampr.ab.ca), the Ham Radio FAQ editors (Ian Klufft KD6EUI et al, hamradio-faq@amdahl.com), and the archive custodian at ftp.cs.buffalo.edu (Devon Bowen, KA2NRC, bowen@cs.buffalo.edu).

If anyone finds the document, and is interested in the minimal amount of work that voluntary maintenance of it would entail, please feel free to drop a line to any of us, and we would be more than happy to offer guidance and advice.

73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu

-----  
Date: 29 Jan 93 16:19:39 GMT  
From: auratek!epacyna@uunet.uu.net  
Subject: QRP amplifier ?  
To: info-hams@ucsd.edu

In article <1k6g4aINNni9@srvr1.engin.umich.edu>, davos@engin.umich.edu (Alexander Slingeland) writes:

Alexander

What you want to do is fairly simple. Numerous articles and references are available. Probably the best is Solis State Design for the Radio Amateur by Hayward W7ZOI and DeMaw W1FB published by the ARRL (also ARRL Handbook, W1FB QRP Notebook etc.). Basically here is what needs to be considered.

1. The difference between 1 and 5 watts is  $10\log(5/1)$  or 6.99db. Therefore your effort will make your signal 1 S unit stronger (S unit = 6db).
2. The simplest amplifier for CW will be a class C circuit. This will only require a half dozen or so parts. The transistor will need to handle about

10W of dissipation and have at least a 10db gain (suggest a MRF475 or equal at about \$5). You will need a wideband transformer to step down the impedance of your 1 watt driver from 50ohms down to the input Z of the transistor (5 - 10 ohms) , a wideband transformer to step up the collector Z base loading resistor, a wideband transformer to step up the Z at the collector from about 10 -15 ohms to 50 ohms, a choke (inductor) and a couple of bypass and DC blocking capacitors in the power supply to collector circuit (thats 6 or 7 parts).

3. You will also need a low pass filter between the the amplifier and the antenna (may be able to use the one you are have with the 1 watt final). The new amplifier will need to be heat sinked. There will be more heat generated in the cabinet and this may present a frequency stability problem (specially if VFO controled).

Hope the above helps you make the decision.

73's

Ed W1AAZ

> I just finished building a QRP transciever for 40M and found that I still  
> have room  
> to spare in the case, so I was wondering if it would be worth building a  
> small  
> amplifier that would boost the current output from 1W to ~5W ? I hope  
> to try and do some DX from Asia, so I was thinking that I could use all  
> the  
> gain I can get (but still stay QRP, and small size).  
>  
> If anyone has any applicable experience (I have none) or knows of where  
> plans for such  
> an amp. exist, please mail me.  
>  
> 73  
> Alexander Slingeland (N8SPG)

-----  
Date: Fri, 29 Jan 1993 15:52:45 GMT  
From: yuma!csn!teal.csn.org!erik@purdue.edu  
Subject: QSL Info  
To: info-hams@ucsd.edu

--

SNAIL MAIL: Erik Mugele      \* INTERNET: erik@csn.org      \* "Mistakes are often  
829 Hathaway Dr #203C      \* AT&Tnet: 719.550.6188      \* the stepping stones



Colorado Springs, CO 80915 \*      HAMnet: N5XYX      \* to utter failure."  
U.S.A.      \*      \* - Wisdom of Dr. Bob

-----  
Date: 30 Jan 93 12:26:00 GMT  
From: ogicse!uwm.edu!zaphod.mps.ohio-state.edu!ub!acsu.buffalo.edu!  
ubvmsb.cc.buffalo.edu!oopdavid@network.UCSD.EDU  
Subject: quarter vs. half-wave vertical  
To: info-hams@ucsd.edu

In article <1993Jan30.031422.27707@fuug.fi>, an8785@anon.penet.fi (Tesuji)  
writes...

>X-Anon-To:rec.radio.amateur.misc

>

>I'm using a quarter-wave Marconi vertical currently on  
>20m. I'm unfortunately fundamentally overloading my  
>neighbor's telephone 100 ft away -- even with 50 watts  
>out (I'm using a 90 dB lowpass filter).

>

>Keeping everything else constant, would switching  
>to a half-wave vertical, such as an R5 or R7  
>lessen the RFI?

>

Absolutely NOT! Your solution to this problem should be to inquire  
about telephone filtering devices or the newest item an RF free phone,  
which has appeared recently. Changing your antenna is needless work  
and will not change the the near field significantly around your  
antenna (as noted by your claim that 50 watts does not change the  
situation). If this fails to work, tell your neighbor to consider  
purchase of these items mentioned above. The problem is with his  
telephone. He will probably say that he would not be having the  
problem if you were not there. You would not be having the complaint  
if his phone was designed properly. Distance yourself from the  
situation as much as possible and do not become emotionally connected.

73, Dave

>-----  
>To find out more about the anon service, send mail to help@anon.penet.fi.  
>Due to the double-blind system, any replies to this message will be anonymized,  
>and an anonymous id will be allocated automatically. You have been warned.

-----  
Date: Fri, 29 Jan 1993 17:54:29 GMT  
From: agate!usenet.ins.cwru.edu!gatech!emory!sol.ctr.columbia.edu!  
news.unomaha.edu!cwis.unomaha.edu!rerickso@ames.arpa  
Subject: Two meter antenna performance

To: info-hams@ucsd.edu

Is there a way I can obtain two meter beam antenna comparisons, or has this been published somewhere I am unaware of?

I have a used Cushcraft 11 element two meter beam. I wonder how it measures up compared to other two meter beams. The specifications say a gain of 13.1 dB over an isotropic dipole. Is that a creditable claim?

Ron  
AK0N

-----  
Date: Fri, 29 Jan 1993 23:36:56 GMT  
From: info-serv!lila!dorsey@uunet.uu.net  
Subject: VHF Digital Communications  
To: info-hams@ucsd.edu

Forgive me if this is in the FAQ for I just subscribed to this group.

I've used HTs for analog voice communications for quite some time now, and have played a bit with packet radio. I've been disappointed by what appears to me to be a complete lack of digital radios designed for voice communication. For a hobby that is traditionally centered around experimenting with technology, I found this a bit surprising.

Perhaps I just haven't looked in the right places, but none of the stores or magazines I've looked in have sold any type of digital transceivers for voice use. I am quite interested in this technology, but would prefer to purchase ready-made equipment or kits rather than attempt to design something myself. If anyone is aware of any such equipment, I would really appreciate hearing about it, along with sources from which I can purchase from.

Thanks.

--  
Bill Dorsey            "Most people mistake law for justice and authority for  
dorsey@lila.com       liberty. You will hear them talk of 'liberty under law,'  
PGP 2.x public        and they are content to see it so deep under the law that  
key on request        it is completely obliterated." -- Herbert Spencer

-----  
Date: 30 Jan 93 16:39:50 GMT

From: ogicse!emory!gatech!wa4mei!ke4zv!gary@network.UCSD.EDU  
Subject: Wanted Manual: Yaesu FT-180A  
To: info-hams@ucsd.edu

In article <9301292035.AA22464@bunny.gte.com> rabassa\_ao%ncsd.dnet@gte.COM (NW2M  
reply: rabassa\_ao%ncsd.dnet@gte.com) writes:

>  
>Also... any thoughts as to the legality of operating from my home QTH  
>to my brother off-shore in Costa Rica. Does the marine ssb service  
>allow me to communicate (ragchew) with him or phone-patch without  
>using ATT or special \$\$\$\$ services? My fall-back position is to  
>get him through the ham ranks... but I am also looking at the  
>benefits (?) of the marine ssb service.

Al, the FCC has become very touchy on this subject of late for some  
reason. They have been handing out big fines on the left coast for  
land stations using marine radios. With the wide availability of  
these radios, and their low cost, the FCC may fear another CB like  
boom and are attempting to nip it in the bud. Getting a marine land  
station license is not trivial. In fact I don't think an individual  
can get one at all.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: 30 Jan 93 13:18:24 GMT  
From: ogicse!emory!swrinde!zaphod.mps.ohio-state.edu!menudo.uh.edu!  
ccsvax.sfasu.edu!f\_speerjr@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <14570593@hpnmdla.sr.hp.com>, <14570596@hpnmdla.sr.hp.com>,  
<jkcsgfa@dixie.com>  
Subject : Re: Ham Radio Causes Cancer!

> "Correlation does not beget causation." Many people innocently confuse  
> correlation with causation; the media and certain groups do it aggressively  
> intentionally. For example, there is a correlation between those people  
> who have ham licenses and those who own handi-talkies. One cannot  
> conclude that having a ham license causes HT ownership.

>

> John De Armond, WD40QC | Interested in high performance mobility?  
> Performance Engineering Magazine(TM) | Interested in high tech and computers?

> Marietta, Ga | Send ur snail-mail address to  
> jgd@dixie.com | perform@dixie.com for a free sample mag  
> Need Usenet public Access in Atlanta? Write Me for info on Dixie.com.

Right! Maybe having cancer causes one to be a ham. Sick people may migrate to more or less sedentary hobbies. Or maybe being physically inactive causes BOTH cancer AND hamming. I.e., physically inactive persons don't dispose so well of cancer-producing waste products AND they choose sedentary hobbies.

Whenever you find A correlated with B, any of the following causal relations is possible:

A -----> B

B -----> A

                  |--> A  
C -----|  
                  |--> B

Cheers!

---

James R. Speer	Phone: 409 568 1478
Department of Psychology	Fax: 409 568 2190
Stephen F. Austin State University	E-mail: F_SPEERJR@ccsvax.sfasu.edu
Nacogdoches TX 75962-3046	Ham Radio: K5YUT

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Date: Fri, 29 Jan 1993 15:10:06 GMT  
From: orca!javelin.sim.es.com!datwyler@uunet.uu.net  
To: info-hams@ucsd.edu

References <C1FMMv.4o5@anomaly.sbs.com>, <1993Jan26.222236.28877@rwwa.COM>,  
<1993Jan28.154224.28900@cbnewsm.cb.att.com>  
Reply-To : datwyler@javelin.sim.es.com  
Subject : Re: Real Extras (was Real NoCodes)

Real Extras

I consider myself a real Extra. I haven't touched my HF rig in many months, probably since I QSL'd AB6MB (Jeff Jones). I have an interest in DSP (good thread going on IFs, filters, etc.), analog methods, computers (trying to understand compilers, and write programs for radio design in C/C++), scanners (just starting out on this one), and my family. I try to attend

the radio club meetings here at work (is at lunch time, but work through it sometimes). I have opinions, but find to keep them to myself is better, so I am not bitter.

Those who discuss their divorces, surgeries, ailments, and ETC. ad nauseum should probably die soon, because THEY already have. (Sorry, just an opinion.)

--

Douglas L. Datwyler, WR70  
Evans & Sutherland Computer Corp.  
datwyler@javelin.sim.es.com

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End of Info-Hams Digest V93 #139  
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